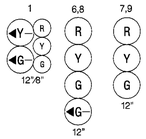
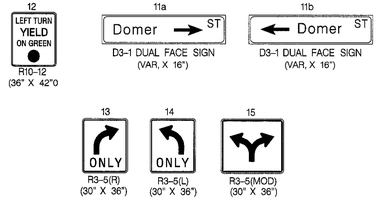
US 1 IS ASSUMED TO RUN
IN A NORTH-SOUTH DIRECTION

EXISTING SIGNALS (BLACKFACE)



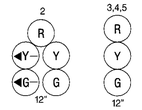
EXISTING OPTICOM DETECTOR EYE

EXISTING SIGNS

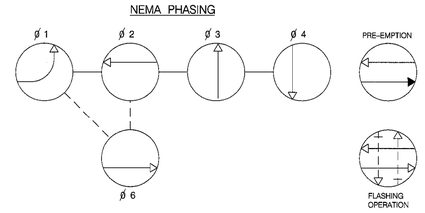


PROPOSED OPTICOM DETECTOR EYE

PROPOSED SIGNALS (BLACKFACE)



NEMA PHASING



PHASING NOTES:
1.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2.) PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.

PHASE CHART

PHASE 1 & 6	<G-G	<G-G	G	R	R	R	R	R	R
1 CHANGE	<Y-G	<Y-G	G	R	R	R	R	R	R
PHASE 2 & 6	G	G	G	G	G	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R
PHASE 3	R	R	R	R	R	R	R	G	G
3 CHANGE	R	R	R	R	R	R	R	Y	Y
PHASE 4	R	R	R	R	R	G	R	R	R
4 CHANGE	R	R	R	R	R	Y	R	R	R
PRE-EMPTION	G	G	G	G	G	R	R	R	R
PRE-EMPTION CHANGE	Y	Y	Y	Y	Y	R	R	R	R
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R

CONSTRUCTION DETAILS

A. INSTALL OPTICOM DETECTOR EYE ON EXISTING SPAN WIRE AS SHOWN
B. USE EXISTING POLE MOUNTED CABINET
C. REMOVE EXISTING SIGNAL HEAD AND INSTALL PROPOSED BLACKFACE SIGNAL HEAD ON EXISTING SPAN WIRE AS SHOWN
D. INSTALL 6 FT. X 30 FT. QUADRUPOLE TYPE LOOP DETECTOR ENCASED IN FLEXIBLE TUBING (3-6-3 WINDING)
E. INSTALL 1 IN. LIQUID-TIGHT, FLEXIBLE, NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
F. SPLICE NEW LOOP WIRE TO EXISTING 2-CONDUCTOR CABLE IN HANDHOLE

GENERAL NOTES

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THE CONFLICT MAY BE RESOLVED.
2. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT BEING REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE WORK.
3. THE EXISTING CABLE WILL BE USED WHEN REPLACING SIGNAL HEADS
4. INSTALL 4-CONDUCTOR OPTICOM CABLE FROM THE PROPOSED OPTICOM DETECTOR EYE, ALONG THE SPAN WIRE, DOWN THE POLE TO THE POLE MOUNTED CABINET.
5. THE QUANTITIES SHOWN ON THIS SHEET ARE FOR THIS INTERSECTION ONLY. QUANTITIES FOR THE ENTIRE PROJECT ARE SUMMARIZED ON THE GENERAL INFORMATION SHEET.
6. INSTALL PRESENCE DETECTOR 1 FT. BEHIND STOPBAR.

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 1 AND DOMER STREET IN PRINCE GEORGE'S COUNTY. US 1 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A FIVE-PHASE SEMI-ACTUATED MODE WITH AN EXISTING PRE-EMPTION PHASE FOR SOUTHBOUND US 1. THE PHASING WILL BE CHANGED TO INCLUDE A NORTHBOUND US 1 PRE-EMPTION PHASE.

PROJECT CONSTRUCTION

WORK WILL INCLUDE INSTALLING N.B. US 1 PRE-EMPTION, BLACKFACE SIGNAL HEADS FOR THE MAIN LINE AND DETECTOR REPLACEMENT.

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR
ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
8045	10 LF	FURNISH AND INSTALL 1 IN.LIQUID-TIGHT, FLEXIBLE, NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
8061	1 EA	FURNISH AND INSTALL OPTICOM NO. 721 DETECTOR EYE
8079	210 LF	FURNISH AND INSTALL 4-CONDUCTOR OPTICOM CABLE
8077	14 EA	FURNISH AND INSTALL 12 IN. VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8088	460 LF	FURNISH AND INSTALL LOOP WIRE IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8089	130 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101
FAX (410) 923-6473 EMAIL: TRACONCEPT@AOL.COM

REVISIONS

C	INSTALL OPTICOM SYSTEM AND BLACKFACE SIGNAL HEADS						
9/23/2004	SHA NO. AT6045185						
MO	TZ						
B	ADD S.B LEFT TURN LANE AND W.B. PHASE						
SHA NO. PG2745184							
AH	PS						TH
A	REPLACE FAILED LOOP DETECTORS						
5/1994	SHA NO. AW-578-501-385						
RCS	WG						

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, OFFICE OF TRAFFIC & SAFETY

ORIGINAL ON FILE

SHA MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNAL PLAN
US 1 AND DOMER STREET

DRAWN BY:	JD TK	F.A.P. NO.	N/A	TS NO.	SHEET NO.
CHECKED BY:	WES GUCKERT	S.H.A. NO.	P-586-501-385	1392C	
SCALE:	1" = 20'	COUNTY:	PRINCE GEORGES	T.I.M.S. NO.	8 OF 11
DATE:	1221976	LOG MILE:	116000113.25	G492	

m:\1500\1515\opticomproj\us1@domer Nov. 09, 2004 10:47:52